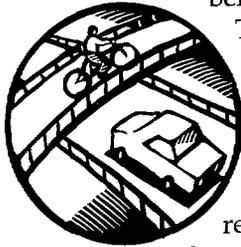




SAFETY

FHWA and AMS Advance the State of the Art in Accident Data Collection

FHWA is conducting research on developing an expert system for crash data collection. Enhanced accident data collection techniques that employ an expert systems approach are being developed.

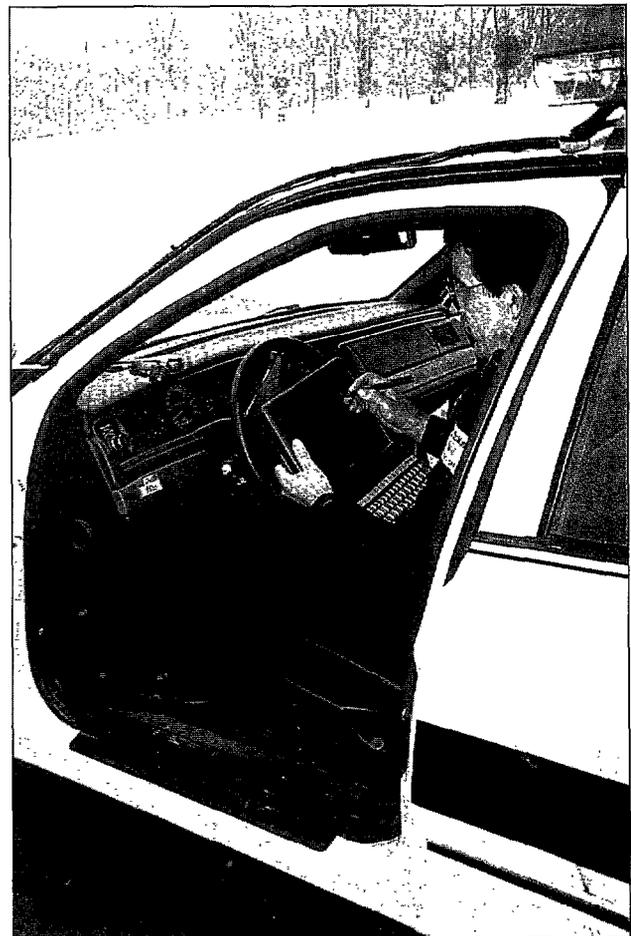


The purpose of the effort is to demonstrate how the quality and utility of police reported accident data can be improved by using the knowledge of experts (accident reconstructionists, safety analysts, etc.) to guide users through selected parts of the on-scene data collection process. The American Management Systems (AMS) has entered into an agreement with FHWA to link the expert system modules being developed into AMS' existing accident data collection software. The joint effort between the two organizations will advance the state of the art in police accident data collection.

AMS' software, called Officer Information Manager (OIM), is currently being used in several State and local police jurisdictions to capture data at the scene of traffic accidents. In another FHWA effort, advanced data collection

technologies (pen-based computers, global positioning systems, and geographical information systems) used in Iowa, New Jersey, Washington, and Wisconsin have been evaluated from a benefit/cost perspective. At these test locations, police officers are using AMS OIM software on pen-based computers to capture accident data.

A combined FHWA and National Highway Traffic Safety Administration (NHTSA) effort, the ALERT (Advanced Law Enforcement Response Technology) project, incorporates both hand-held and in-vehicle computers to store and transmit crash data more quickly to State records, data bases, or officer's base stations. For more information on the ALERT



Police officer uses Officer Information Manager software to collect accident data at an accident-t near Des Moines, Iowa.

project contact Dave Smith, (202) 366-6614. -**Michael Griffith**, (703) 285-2382, mike.griffith@fhwa.dot.gov

RESEARCH & TECHNOLOGY TRANSPORTER

The *Research & Technology Transporter* is intended to transmit current research, technology accomplishments, and technical assistance information. It is issued under FHWA's Research and Technology Program. Editorial offices are housed at the Turner-Fairbank Highway Research Center. Comments and address changes should be sent to the editor at the address below. Field offices may submit articles for publication in the *Transporter* to the appropriate Research & Technology Coordinating Group (RTCG) Chairperson listed below. The *Transporter* is distributed to FHWA's Washington Headquarters and field offices, State highway agencies, and selected associations having direct involvement with FHWA and its highway research mission.

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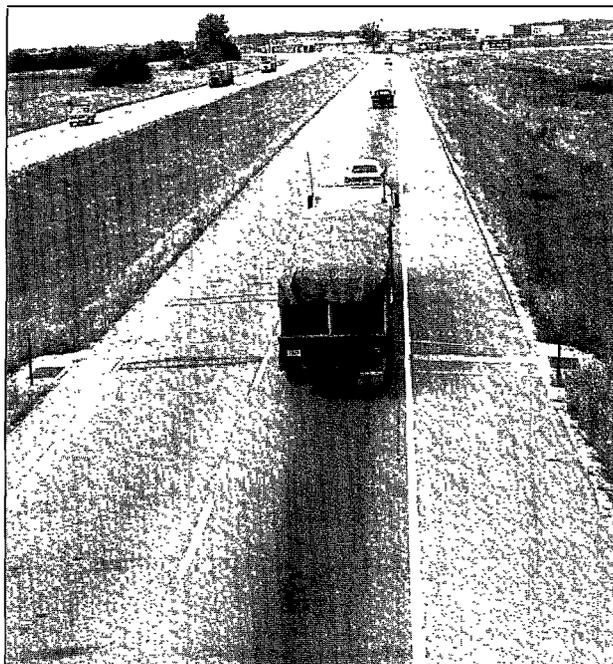
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POLICY

Vehicle Travel Information System Data Base Released to States



The VTRIS can manage information from weigh-in-motion systems such as this one.

A computer data base management system for vehicle classification and truck weight data has been disseminated to States. The Vehicle Travel Information System (VTRIS) is a Windows-based system for managing data from automatic vehicle classifiers (AVC) and weigh-in-motion (WIM) systems in accordance with the procedures of the *Traffic Monitoring Guide*. In addition to data management capabilities, VTRIS validates and summarizes AVC and WIM data. Several printed reports are available, including summaries of loads by vehicle type and roadway functional class. Additional reports are planned for future releases of VTRIS.

With the increasing use of permanent AVC and WIM systems, States are struggling with the large amounts of data now available. One WIM station can generate over 100 megabytes of data in a year. An advantage of VTRIS is that many reports can be produced from a one-time summary process.

FHWA's Travel Monitoring Division conducted VTRIS workshops in Springfield, Massachusetts, in December 1995, and in Washington, DC, in June 1996. Another workshop is planned for November 1996, in Washington, DC, along with the Highway Information Seminar. - **Ralph Gillmann, (202) 366-5042, Ralph.Gillmann@fhwa.dot.gov**



MOTOR CARRIERS

State Commercial Vehicle Safety Inspectors Compete for Top Honor



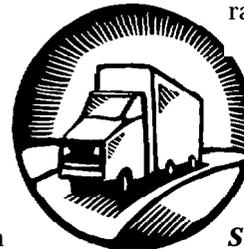
Participants vie for best truck inspector at competition in Ohio.

Demonstrating what they and their colleagues do two million times a year at random roadside safety checks throughout the country, several

State commercial vehicle safety inspectors took part in FHWA's fourth annual international inspectors' competition. Assembled in Columbus, Ohio, in

August were 53 of them from the United States, Canada, and Mexico, representing the best their States or provinces had to offer. For 5 days, they combed vehicles for planted defects, interviewed "drivers" with doctored paperwork, and took a battery of knowledge tests.

Perhaps best of all in the opinion of many of them, they shared their knowledge and techniques with each other. At the end, they crowned a grand champion: South Carolina Trooper Alonzo Hutto. Coupled with many of the other Federal and State safety programs, the inspectors' competition is paying off in decreasing fatality rates for crashes involving



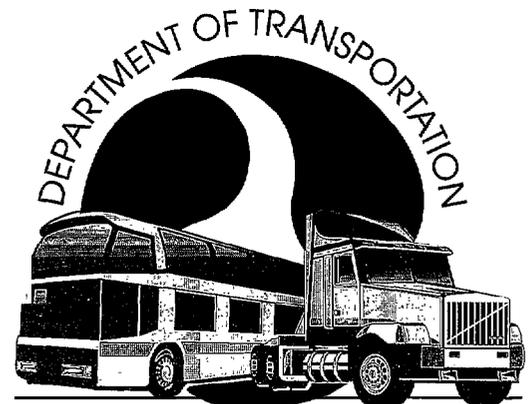
heavy commercial vehicles as well as promoting uniformity of inspections throughout the United States, Canada, and Mexico. -

Stan Hamilton, (202) 3664665, stan.hamilton@fhwa.dot.gov

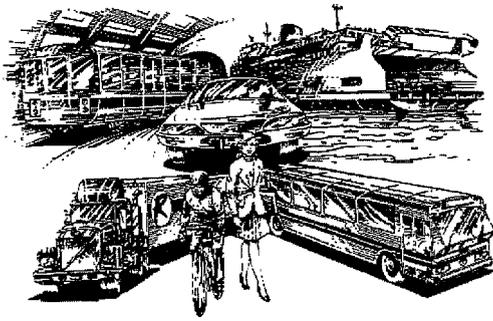
Motor Carriers Web Site Is Up and Running

The Office of Motor Carriers (OMC) Home Page is being maintained at the Department of Transportation Headquarters with links to various OMC sites around the country. The site contains information about special programs, the latest issue of the *Motor Carrier Safety Newsletter*, and a downloadable *Application for a DOT Number (Form MCS-150)*. Current and maintained regula-

tions with interpretations will be posted in the future. For users' convenience, a search engine as well as other features are also being added in the near future. You can reach the web site at <http://ctil.volpe.dot.gov/ohim/omhome.html>. - **Steven Erlitz, (202) 366-0085, steven.erlitz@fhwa.gov**



**Federal Highway Administration
Office Of Motor Carriers**



Planning and Environmental Resources Catalog

FHWA's Office of Environment and Planning, working with its Federal Transit Administration (FTA) counterparts, has just completed production of a *Planning and Environmental Resources Catalog*. Jointly prepared as a service to our customers, the catalog is a guide to the vast array of resources, both human and informational, that we have developed in support of transportation planning and environment enhancement. It is part of a multifaceted strategy to ease the difficulty our customers have in

PLANNING

Planning and Environmental Resources Catalog Being Published

obtaining assistance on technical issues, as well as matters of policy and guidance.

Included in the catalog are the many products and services developed by FHWA and FTA since the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 and the Clean Air Act Amendments significantly changed the business practices of transportation planning and the environment. Specifically, customers will find information on the availability of reports, videos, course handbooks, training, on-line data bases and statistics, conference proceedings, and Federal personnel. Users will find information sorted by air quality; environmental, social, and

resource impacts; transportation financing; and general, statewide, and metropolitan planning.

The catalog is now being printed, and hard copies will be distributed this fall to FHWA and FTA field staff, State DOT's, Metropolitan Planning Organizations, transit operators, and State and local air quality professionals. The catalog's data base will also be available on-line along with an electronically accessible version of many of the documents it references. This on-line data base will be used to produce future catalogs, newsletters, and other real-time information resources for the transportation planning and environment community nationwide.



- **Kim Fisher, (202) 366-4054, kim.fisher@fhwa.dot.gov**

PAVEMENTS

TFHRC Participates in Vehicle-Infrastructure Interaction Conference

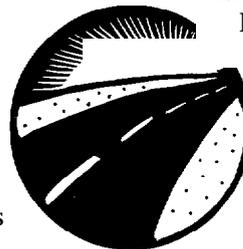
Last summer, the Engineering Foundation Conference on Vehicle-Infrastructure Interaction was held at the Bahia Hotel and Conference Centre in San Diego. Some of the participants there were Professor Bohdan Kulakowski, Director of the Pennsylvania Transportation Institute; Dr. Wei-jun Wang, Truck-Pavement Interaction (TPI) research team member; Jamel Hammouda, TPI research team member; Dr. El-Gindy, senior research officer of the National Research Council of Canada, loan staff at TFHRC, and

Executive Editor of the International Journal of *Heavy Vehicle Systems*; Dr. Edward Fekpe, research scientist at Bettelle Memorial Institute; Dr. John de Pont, senior research scientist at New Zealand Industrial Research; and Professor Y. Sato of Japan. Byron Lord of FHWA was a keynote speaker and presented the results of FHWA's truck size and weight scanning study tour.

The conference brought together research experts

in the areas of vehicles, railways, pavements, and bridges to exchange views on the state of the art and future needs for vehicle-infrastructure interaction. Dr. El-Gindy was also invited to chair a session on Transportation Economy. The presented papers will be submitted for review to Dr. de Pont, Guest

Editor of *Heavy Vehicle Systems*, and the accepted papers will be published in a special issue of the journal. - **Moustafa El-Gindy, (703) 285-3030, moustafa.el-gindy@fhwa.dot.gov**



NHI COURSE SCHEDULE

Contact: Lynn Cadarr, (703) 235-0528

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10/10/96

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY	COURSE DATE
13405	Value Engineering Workshop	Cheyenne	WY 11/04/96-11/08/96
13010	Highways in the River Environment	Albany	NY 11/04/96-11/08/96
12301	Introduction to Metrics for Highway Agencies	Little Rock	AR 11/04/96-11/04/96
13221	Driven Pile Foundations Design and Construction	Ames	IA 11/04/96-11/08/96
38063	Construction Zone Safety Inspection	Houston	TX 11/04/96- 11/04/96
38032	AASHTO Roadside Design Guide	Denver	CO 11/05/96-11/06/96
14205	Project Development and Environmental Documentation	Harrisburg	PA 11/05/96-11/07/96
35005	Highway Program Financing	Sacramento	CA 11/05/96-11/06/96
14213	Improving the Effectiveness of Public Meetings and Hearings	New Brighton	MN 11/05/96-11/07/96
38061	Pedestrian and Bicyclist Safety and Accommodation	Coeur D'Alene	ID 11/05/96-11/07/96
12301	Introduction to Metrics for Highway Agencies	Little Rock	AR 11/05/96-11/05/96
38060	Work Zone Safety for Maintenance Operations on Rural Highways	Laredo	TX 11/05/96- 11/05/96

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10/10/96

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY	COURSE DATE
14130	Advanced Relocation Workshop		
13133	Construction of Portland Cement Concrete Pavements		
13440	Slope Maintenance and Slide Restoration		
35005	Highway Program Financing		
13133	Construction of Portland Cement Concrete Pavements		
13144	Hot-Mix Asphalt Plant Production		
15129	Application of Geographic Information Systems		
13305	Highway Capacity and Quality of Flow		
13036	Inspection of Fracture Critical Bridge Members		
38032	AASHTO Roadside Design Guide		
12301	Introduction to Metrics for Highway Agencies		
13405	Value Engineering Workshop		
38032	AASHTO Roadside Design Guide		

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY	COURSE DATE
13442	Materials Control and Acceptance - Quality Assurance	Boise	ID 11/18/96-11/22/96
13046	Stream Stability and Scour at Highway Bridges	San Juan	PR 11/18/96-11/22/96
13023	Nondestructive Testing Methods for Steel Bridges	Austin	TX 11/18/96-11/20/96
13061	Load and Resistance Factor Design for Highway Bridges	Houston	TX 11/18/96-11/22/96
38063	Construction Zone Safety Inspection	Dallas	TX 11/18/96-11/18/96
13401	Principles of Writing Highway Construction Specifications	Columbia	SC 11/19/96-11/22/96
15265	Interim Workshop on Transportation/Air Quality Analysis	Santa Fe	NM 11/19/96-11, '20/96
38063	Construction Zone Safety Inspection	Little Rock	AR 11/19/96-11/19/96
14131	Business Relocation	Springfield	IL 11/19/96-11/21/96
13213	Geosynthetics Engineering Workshop	Topeka	KS 11/19/96-11/22/96
13108	Techniques for Pavement Rehabilitation	Tallahassee	FL 11/19/96-11/22/96
13027	Urban Drainage Design	Dallas	TX 11/19/96-11/22/96

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY
38032	AASHTO Roadside Design Guide	San Juan
13051	Bridge Management	Phoenix
13047	Stream Stability and Scour at Highway Bridges for Bridge Inspector	Austin
38060	Work Zone Safety for Maintenance Operations on Rural Highways	Chicago
13213	Geotextile Engineering Workshop	Seattle
13061	Load and Resistance Factor Design for Highway Bridges	Chicago
13010	Highways in the River Environment	Helena
15255	Access Management & Traffic Analysis of Highways	New York
13055	Safety Inspection of In-Service Bridges	Austin
38063	Construction Zone Safety Inspection	Schroeder
14207	Prediction and Abatement of Highway Traffic Noise	Horsham
15127	Statewide Highway Planning Procedures	Salt Lake City

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY	COURSE DATE
14213	Improving the Effectiveness of Public Meetings and Hearings	Phoenix	AZ 12/03/96-12/04/96
35005	Highway Program Financing and The Executive Level Course	Austin	TX 12/03/96-12/04/96
13440	Slope Maintenance and Slide Restoration	New Brighton	MN 12/05/96-12/05/96
38063	Construction Zone Safety Inspection	Princeton	IL 12/05/96-12/05/96
15266	Elements of Financial Planning - Technical Methodologies	Austin	TX 12/05/96-12/06/96
13429	Bridge Maintenance Training	Dover	DE 12/09/96-12/13/96
38063	Construction Zone Safety Inspection	Mount Vernon	IL 12/10/96-12/10/96
14205	Project Development and Environmental Documentation	Lansing	MI 12/10/96-12/12/96
13108	Techniques for Pavement Rehabilitation	Worcester	MA 12/10/96-12/13/96
13047	Stream Stability and Scour at Highway Bridges for Bridge Inspector	Topeka	KS 12/11/96-12/11/96
38063	Construction Zone Safety Inspection	Springfield	IL 12/12/96-12/12/96
12301	Introduction to Metrics for Highway Agencies	Staunton	VA 12/12/96-12/12/96

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY
13047	Stream Stability and Scour at Highway Bridges for Bridge Inspector	Topeka
13132	Hot-Mix Asphalt Construction	Edwards
13046	Stream Stability & Scour at Highway Bridges	Houston
13328	Traffic Control Software and Signalization	Fairfax
13405	Value Engineering Workshop	Saint Louis
13055	Safety Inspection of In-Service Bridges	Springfield
13132	Hot-Mix Asphalt Construction	Dover
38003	Design and Operation of Work Zone Traffic Control	Scottsdale
38003	Design and Operation of Work Zone Traffic Control	Scottsdale
13035	Bridge Backwater Computer Program (WSPRO)	Atlanta
38061	Pedestrian and Bicyclist Safety and Accommodation	701
13132	Hot-Mix Asphalt Construction	Saint Louis
13064	Bridge Engineering	Tampa

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY	COURSE DATE
13036	Inspection of Fracture Critical Bridge Members	Lansing	MI 01/21/97-01/22/97
13133	Construction of Portland Cement Concrete Pavements	Phoenix	AZ 01/21/97-01/23/97
13057	HYDRAIN	Schaumburg	IL 01/22/97-01/24/97
35005	Highway Program Financing	Frankfort	KY 01/22/97-01/23/97
12301	Introduction to Metrics for Highway Agencies	Montgomery	AL 01/25/97-01/25/97
12301	Introduction to Metrics for Highway Agencies		AL 01/26/97-01/26/97
13010	Highways in the River Environment	Phoenix	AZ 01/27/97-01/31/97
13221	Driven Pile Foundations - Design and Construction		MI 01/27/97-01/31/97
13442	Materials Control and Acceptance - Quality Assurance	Coeur D'Alene	ID 01/27/97-01/31/97
13429	Bridge Maintenance Training	Waukesha	WI 01/27/97-01/31/97
12301	Introduction to Metrics for Highway Agencies		AL 01/27/97-01/27/97
38031	Highway Safety Engineering Studies	Olympia	WA 01/28/97-01/30/97

NHI COURSE SCHEDULE

No.	COURSE TITLE	CITY
13027	Urban Drainage Design	Schaumburg
13222	Driven Pile Foundations - Construction Monitoring	Ann Arbor
13405	Value Engineering Workshop	Delaware
13442	Materials Control and Acceptance - Quality Assurance	Lettingwood
15118	Application of the FHWA Traffic Monitoring Guide	Sarasota
13132	Hot-Mix Asphalt Construction	Lansing
13442	Materials Control and Acceptance - Quality Assurance	Portland
13133	Construction of Portland Cement Concrete Pavements	
13132	Hot-Mix Asphalt Construction	Chicago
12301	Introduction to Metrics for Highway Agencies	Sarasota
13221	Driven Pile Foundations - Design and Construction	Scottsdale
13133	Construction of Portland Cement Concrete Pavements	Huntsville
13055	Safety Inspection of In-Service Bridges	

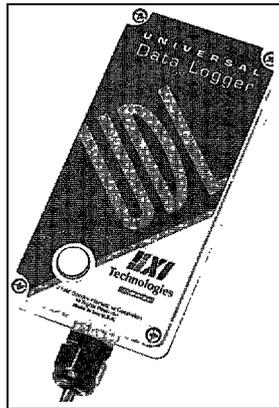
Public/Private Partnership Develops Hi-Tech Winter Maintenance

Iowa, Michigan, and Minnesota have formed a consortium to develop an advanced vehicle for winter highway maintenance. The vehicle will battle the elements of winter by performing complex snow and ice control operations using a navigation system, onboard computer and data recorders, sensors and automatic attachment controls, an automatic vehicle location system, and an advanced communications system.

The project used a unique method of involving private industry. First, focus groups were held in each State with field maintenance personnel (mechanics, vehicle operators, supervisors, etc.) and other customers who rely on snow removal equipment (State highway patrol and emergency responders). The focus groups identified problems and concepts, defined functional requirements, and developed the levels of design for the vehicle. From these meetings, 640 items were identified. They were gathered into a list of six major categories. The three States then went to their private sector suppliers and other interested developers, provided the list to them, and invited them to propose solutions. Products from the Strategic Highway Research Program and other research sources were also examined for technologies beneficial to the project.

Next, a meeting was held at which 14 private companies presented proposals to the three States. The technologies

were reviewed for field readiness, and each State picked the technologies and vendors of interest to them. The States selected such unique technologies as an incremental power booster, surface temperature sensor, vehicle weight sensor, and a continuous friction measuring device. The last phase was budget development. Vendors were asked to contribute personnel and loaned or donated equipment. Each State donated a truck equipped with underbody and wing mount plows, a v-box, and a spreader. The vendors agreed to donate over \$276,000 worth of loaned equipment and staff time to equip the vehicles.



Data loggers such as this make **advanced winter** maintenance possible.

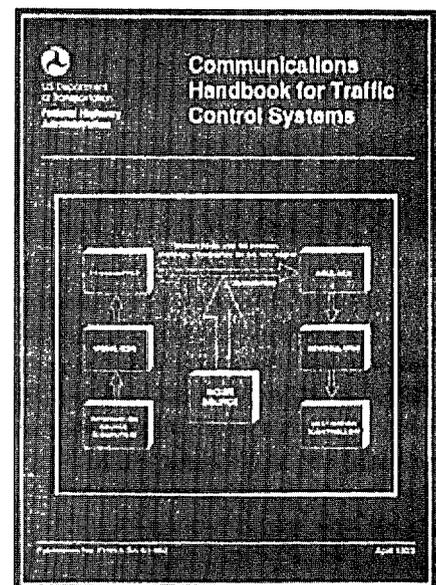
The trucks were to be equipped by November 1 and will be tested by experienced snow plow operators over the winter snow and ice season. An evaluation team has been formed and includes representatives from the private sector companies and the States. After the initial tests and feasibility studies are conducted, either another prototype will be developed or the States may choose to equip 10 trucks each for further evaluation. The Center for Transportation Research and Education at Iowa State University is the principal investigator and facilitator for the meetings and the project. - **Lee Smithson, (515) 239-1519**, and **Roger Port, (816) 276-2744, roger.port@fhwa.dot.gov**

ITS

Communications Handbook Is Back By Popular Demand

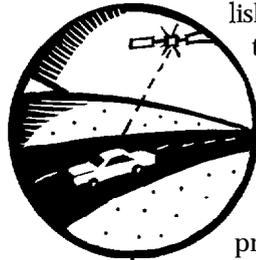
FHWA has reprinted its April 1993 *Communications Handbook for Traffic Control Systems*, Publication No. FHWA-SA-93-052. The handbook provides practicing transportation professionals with invaluable resources on the state of the practice in communication technologies, system architectures, and emerging advanced technologies. The hand-

book also provides guidance in planning, selecting, evaluating, designing, implementing, operating, and maintaining communications systems. Copies of the reprinted handbook may be obtained from the R&T Report Center by phone (301-577-0818) or fax (301-577-1421). - **John McCracken, (202) 366-2229, john.mccracken@fhwa.dot.gov**



Advanced Rural Transportation Systems Being Planned

Efforts to study and deploy Intelligent Transportation Systems (ITS) along the rural transportation system were accelerated this past year. From a broad perspective, a crosscutting team of U.S. DOT staff are developing a Strategic Plan for Advanced Rural Transportation Systems (ARTS). This team, affectionately known as the Rural Action Team, includes representatives from FHWA (R&D, ITS



Joint Program Office, and Safety and System Applications), National Highway Traffic Safety Administration (NHTSA), and the FTA. The Strategic Plan, which will provide a foundation for all future ARTS activities, is scheduled to be published in the Federal Register this fall so the transportation community can have an opportunity to provide comments.

Several specific rural ITS projects are also taking place,

including two field tests: one to assess the use of satellite communications for mayday systems and the other to develop a portable surveillance and delay advisory system for work zones. Additional projects include a technology scan to identify successful, low-cost rural technology and a study of the use of enhanced radar detectors as a means of displaying inside a vehicle warning messages that were transmitted from the roadside or another vehicle. - Paul Pisano, (703) 285 2498, paul.pisano@fhwa.dot.gov

STRUCTURES

Underwater Evaluation and Repair of Bridge Components: Training

Since 1988 when the National Bridge Inspection Standards (NBIS) were modified to require underwater inspections as part of comprehensive bridge inspection programs, serious conditions have been found at many structures. Today, substructure repairs in water are routinely being made by many bridge owners. To assist State DOT's in planning, designing, and accomplishing underwater repairs in the most effective manner, FHWA's Office of Technology Applications (OTA) has developed Demonstration Project 98, "Underwater Evaluation and Repair of Bridge Components," and is now accepting requests for presentations.

This year, the 2-day DP98 program has been presented to State highway agencies from Maine to Louisiana to Alaska, and a special session was held this past June at the International Bridge Conference in Pittsburgh. In conjunction with DP98, a

special shortened version of DP80, "Underwater Inspection of Bridges," was presented to some States to demonstrate new techniques and equipment and train



Diver conducts a video inspection of a badly deteriorated concrete pile.

inspection personnel hired since the original DP80 sessions were offered in 1989 to 1990.

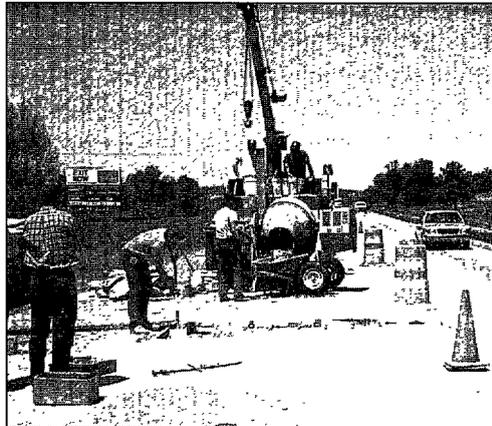
DP98 is intended for inspectors and engineers involved with bridge evaluation, bridge repair, and design of repairs. The training includes a review of mechanisms of deterioration, underwater condition surveys, evaluation of underwater deterioration, and underwater repairs. Samples of underwater construction materials are available. Demonstrations of underwater non-destructive testing techniques and the effects of using concrete admixtures are included.

Project personnel are also available to assist States in special investigations and projects. Contact OTA to schedule DP98 or DP80. - Tom Kylowski, (202) 366-6771, tom.kylowski@fhwa.dot.gov



Innovative Construction Contracting is Subject of Workshop

The use of alternative or innovative contracting procedures is becoming more widespread in highway construction contracting. In a climate of shrinking public funds and smaller government, public owners are being asked to do more with less. State highway agencies are increasingly turning to contracting methods designed to reduce project delivery time and shift more responsibility for workmanship and quality to the contractor.



studies of alternative or innovative contracting methods, obtain feedback from the participants concerning each method, generate discussion regarding ways to improve these methods, and develop new contracting approaches. Among the contracting methods covered in the workshop were design-build, lane rental, multi-parameter bidding, indefinite delivery, construction warranties, performance-related specifications, value engineering, and partnering.

As part of an FHWA research contract to investigate innovative contracting practices currently being used or developed, FHWA held a 2-day workshop in Philadelphia. The workshop brought together 40 recognized experts and interested parties from State highway agencies, highway consulting firms, associations, suppliers, academia, and law firms. The objectives of the workshop were to present case

Under the FHWA research contract, the research contractor for this project will prepare instructional users guides for those methods or combinations of methods identified as having the greatest potential for improving construction quality. A final report will also be available shortly after completion of the contract in February 1997. - **Peter A. Kopac, (703) 285-2432, peter.kopac@fhwa.dot.gov**

ENVIRONMENT

Research Added to 1997 Environmental Excellence Awards

FHWA is getting ready for its 1997 Environmental Excellence Awards Program. The projects, processes, and people nominated for these awards are examples of outstanding work being done to build efficient, effective intermodal transportation that fits harmoniously with our natural environment, neighborhoods, and communities. For 1997, the Environmental Excellence Awards Program has two categories.

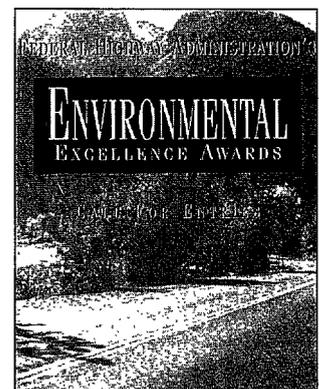
incorporating environmental stewardship into the planning and project development process. It recognizes people in three specific areas: leadership, process (efforts resulting in time or money savings), and research (efforts addressing environmental concerns). This is the first time the award program will recognize creative research efforts being done in transportation and the natural environment.

and archeological preservation, roadside vegetation management, noise abatement, air quality improvement, and community cohesion. The winners will be announced at the 1997 Earth Day Celebration in Washington, DC. - **Pat Cazenias, (202) 366-4085, Patricia.cazenias@fhwa.dot.gov**

The Distinguished Environmental Achievement category is designed to honor the human element, our partners who demonstrate a commitment to



The Environmental Enhancements category recognizes outstanding transportation projects and processes that use FHWA funding sources in non-motorized transportation, habitat, water quality, wetland preservation, historic



NHI Reinforces its Partnerships with Industry

The National Highway Institute (NHI) took another important step towards strengthening its partnership with U.S. industry on June 26, when NHI met with the board of directors of the Asphalt Recycling and Reclaiming Association (ARRA) to discuss new ways of cooperation. The board members were welcomed by William F. Brown, Chief of NHI's University, Industry, and International Programs Division. William L. Williams, NHI's Coordinator for International Activities, discussed NHI's programs with the group.

The presentation was followed by a vigorous discussion on different possibilities of enhancing cooperation between ARRA and NHI. Some of the ideas discussed were cost sharing for future training courses and greater involvement of ARRA in selecting instructors and experts for relevant courses. It was also suggested that NHI review ARRA's research papers to explore topics for new training courses of potential interest to the U.S. industry.

The guests were also very interested in hearing

about a recent partnering endeavor between NHI and Hoffman International, resulting in a pioneering hot mix asphalt training course in Russia. It was based on already existing NHI/National Asphalt Pavement Association training courses and materials that were translated into Russian and adapted to Russian conditions. The participants felt that this highly successful experience could serve as a model for further partnering efforts between NHI and the U.S. industry. - **Marketta Kopinski, (703) 235-0534, marketta.kopinski@fhwa.dot.gov**



ARRA board members (l to r) Jim Halverson, Michael Brown, Michael Krissoff, and John Rathbun discuss partnering endeavors.



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HRD-10

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